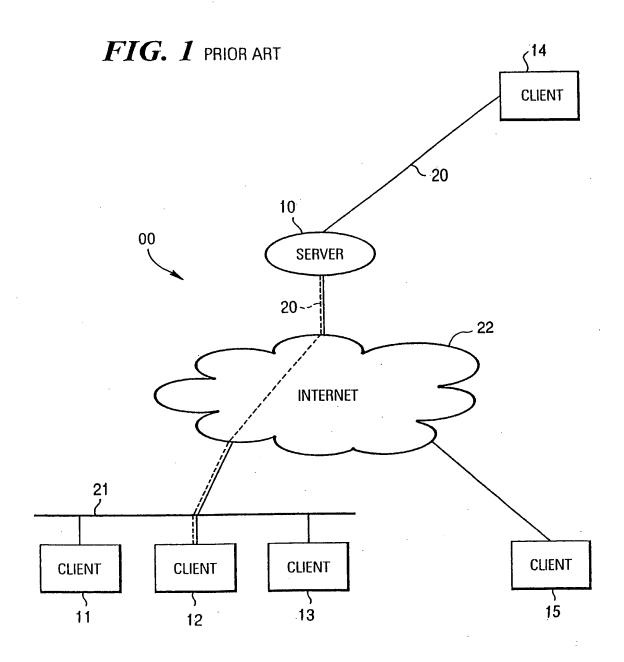
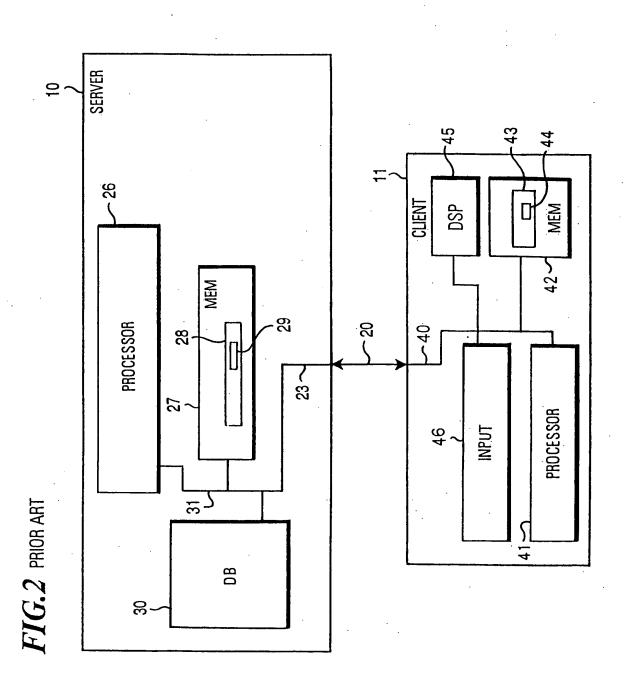
Inventors: Thorsten O. Laux, et al.
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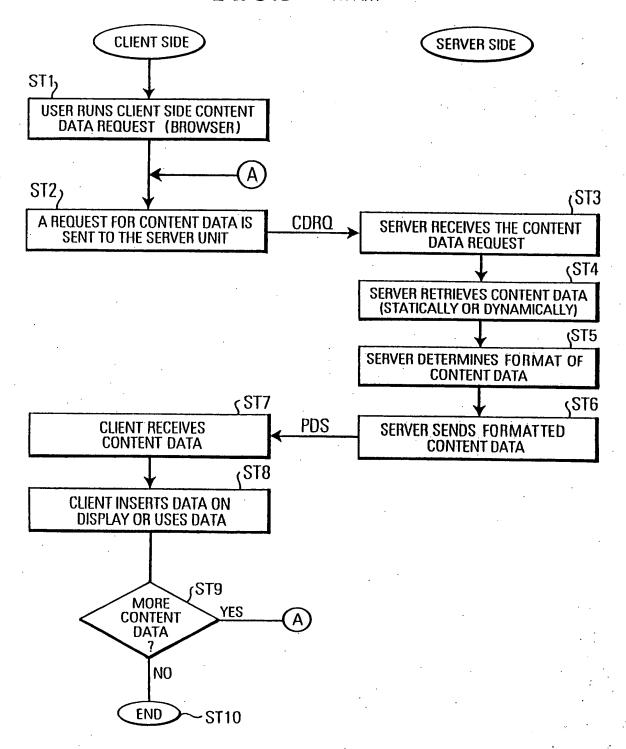
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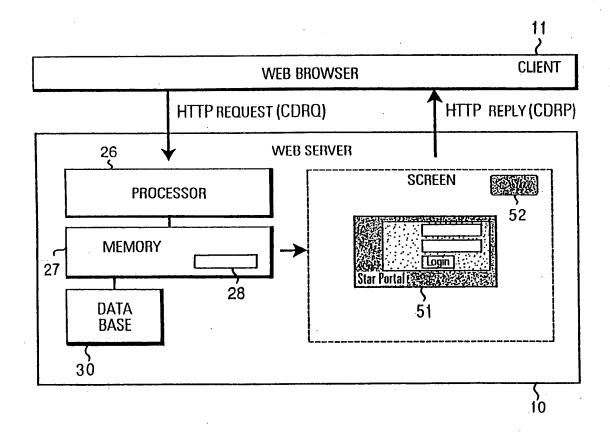
FIG.3 PRIOR ART



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FIG.4 PRIOR ART



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FIG.5a

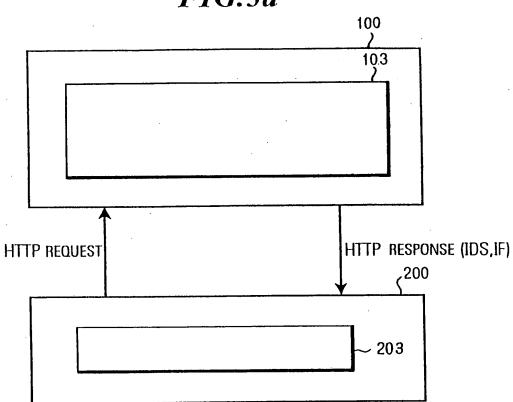
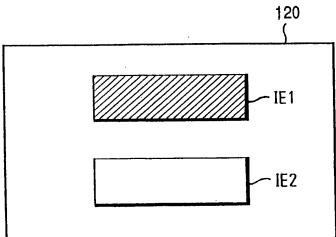


FIG.5c

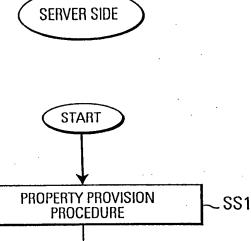


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FIG.5b

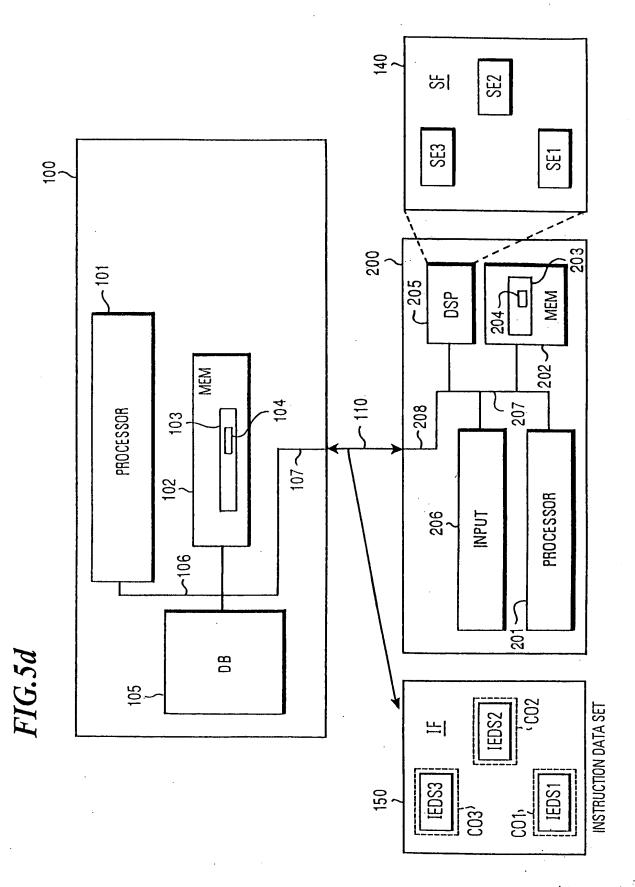


SS2

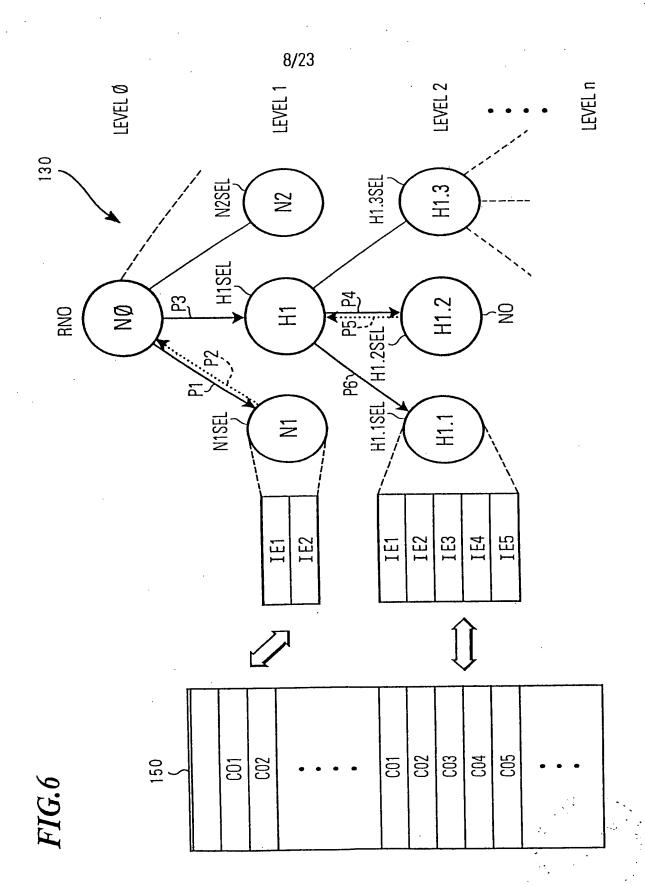
INSTRUCTION DATA SET PROVISION PROCEDURE

END

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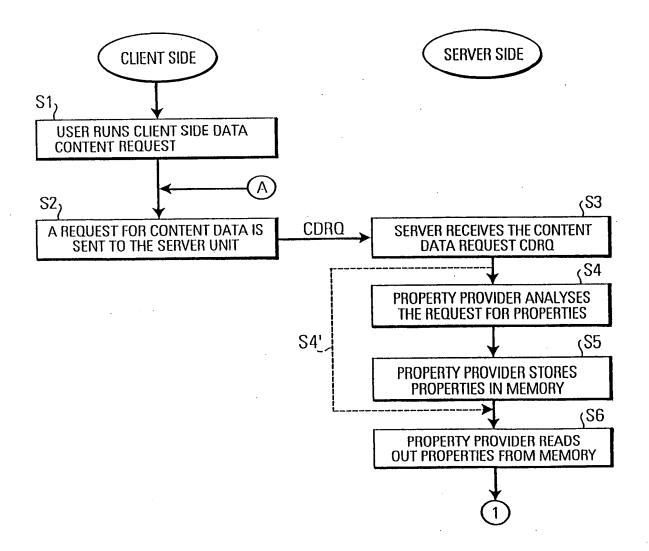
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FIG.7a



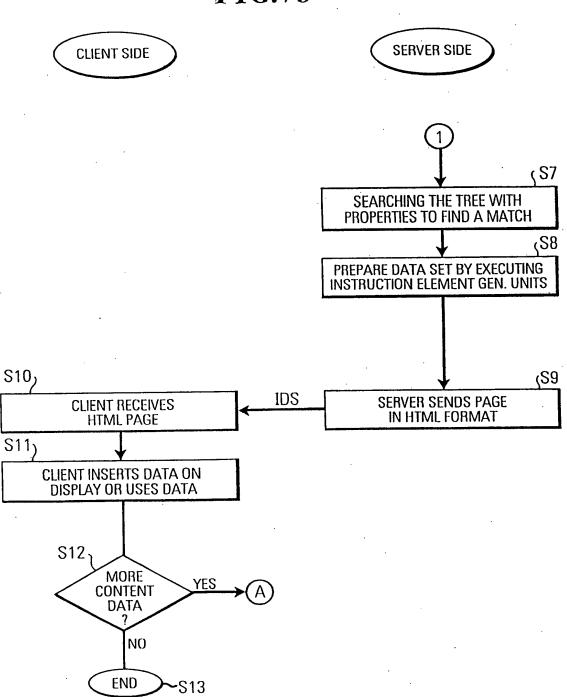
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FIG.7b



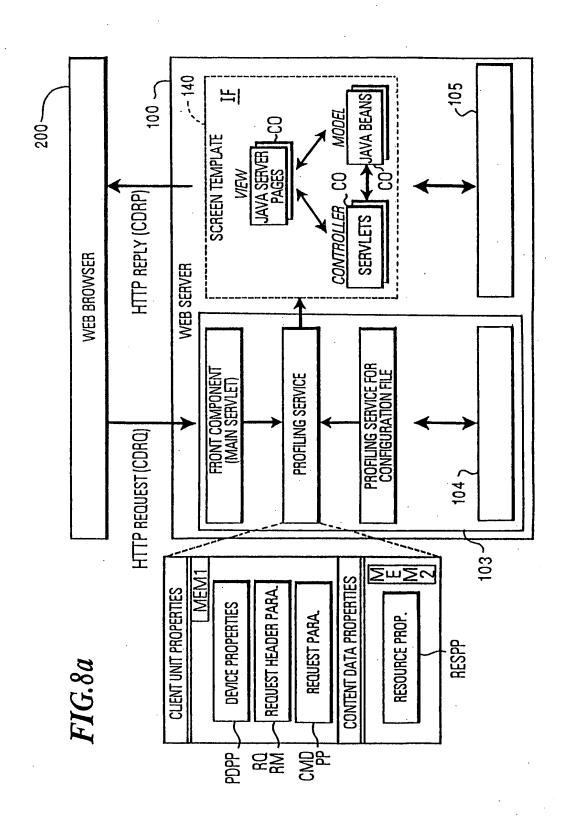
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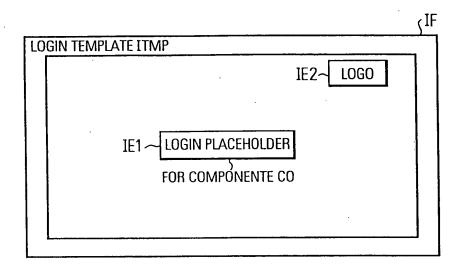
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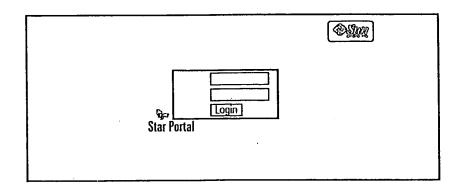


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FIG.8b





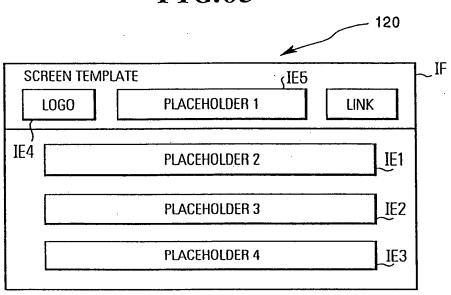
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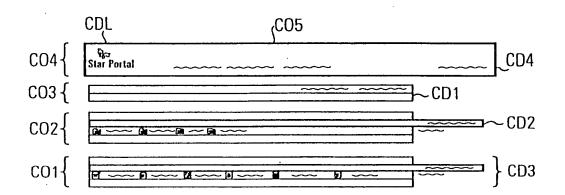
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FIG.8c





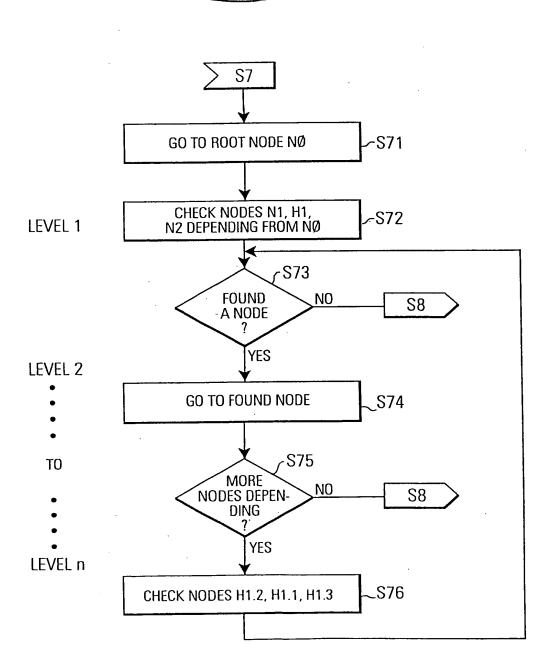
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FIG.9





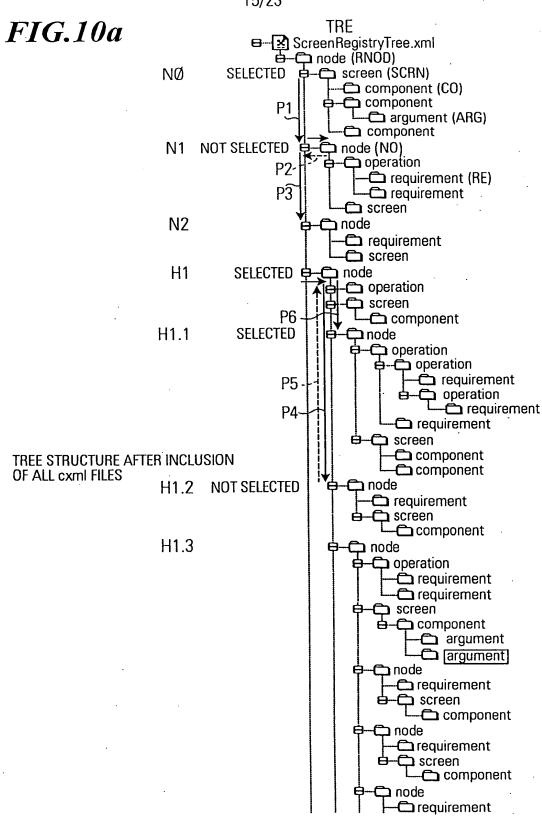
Inventors: Thorsten O. Laux, et al. Title: Method and Apparatus for Providing...

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FIG.10b

xml file for main nodes

MAIN

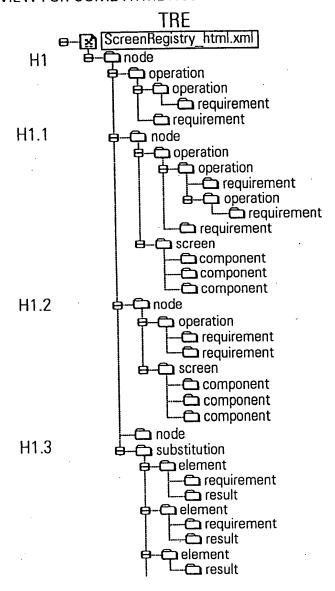
```
<?xml version="1.0" encoding= "ISO-8859-1"? >
<! -- sreen definitions -->
- <node>
     <!-- default screen -->
  - < screen template="/html/HTMLTemplate,jsp " class=" default >
      <component name = "Title"value = "www.mydomain.com" direct = "true"/>
- <component name = "Background" value = "/html/HTMLBackground.jsp"/>
           <argument name="picture" value="$BACKGROUND PICTURE"/>
        </component>
        <component name= "Error" value="/html/HTMLError.jsp"/>
      </screen>
      <!-- execute login -->
                                                                     RETYP
      <node>
      -<operation type= "and">
           <requirement type= "requestParameter" name="cmd"
              value = "execute_login"/>
  N1
           < requirement type = "executionEnvironment" name = "loginBean"
              value="null"/>
         </operation>
         <screen template="/portal/login" class= "login"/>
     </node>
     <!-- logout -->
     <node>
           <requirement type="requestParameter" name="cmd" value="logout"/>
           <screen template = "/portal/logout" class = "logout"/>
 N2 </node>
       <!-- include screen definition files for different devices supported
       <include file="etc/screenregistries/portal/ScreenRegistry_wml.xml"/>
<include file="etc/screenregistries/portal/ScreenRegistry_pqa.xml"/>
<include file="etc/screenregistries/portal/ScreenRegistry_xul.xml"/>
<include file="etc/screenregistries/portal/ScreenRegistry_html.xml"/>
<include file="etc/screenregistries/portal/ScreenRegistry_html.xml"/>
</ordinal/screen/screenregistries/portal/screen/screenregistry_html.xml"/>
</ordinal/screen/screenregistries/portal/screen/screenregistry_html.xml"/>
    </node>
```

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FIG.10c

TREE VIEW FOR SOME HTML NODES OF THE SCREEN REGISTRY



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FIG.10dxml file of HTML nodes HTML <?xml version = "1.0" encoding = "ISO-8859-1"?> <!-- Screen definitions for standard HTML devices (MSIE, Netscape, ...) <node> <operation type="or"> <operation type="not"> <requirement type="ccpp" name="Browser.CCPPAccept.text/html"</pre> H1 value = "null" /> </operation> <requirement type = "requestHeaderParameter" name = "user-agent"</pre> value="Mozilla*"/> </operation> <!-- login page --> <node> H1.1 <operation type="or"> <operation type = "and" > <requirement type="executionEnvironment" name="loginBean"</pre> value = "null" /> <operation type="not" > <requirement type = "requestParameter" name = "cmd"</pre> value = "execute login"/> </operation> </operation> <requirement type="requestParameter" name= "page" value="login"/> </operation> base = "com.sun.star.portal.web.jsp.html"/> <component name="CurrentContent" value="/html/HTMLLogin.jsp"/> <component name="Error" value= "/html/HTMLError.jsp"/> </screen> </node> <!-- welcome page --> H1.2 - <node> - <operation type="or"> <requirement type="executionEnvironment" name= "UniversalContentBrockerContent" value= "null"/> <requirement type="resourceProperty" name="PresentationURL"</p> value = "staroffice.private:factory/desktop" /> </operation> <screen ID = "Welcome.Screen" class = "default" > <component name = "Title" value = "HTMLWelcome.title" direct = "true"</pre> base = "com.sun.star.portal.web.jsp.html"/> <component name = "Shortcuts" value = "/html/HTMLShortcuts.jsp"/> <component name = "CurrentContent"</pre> value = "/html/HTMLWelcome.jsp" /> </screen> </node> H1.3 - < node > <!-- more HTML nodes ... --> </node> <substitution name="\$BACKGROUND PICTURE" > <element> <requirement type = "userInformation" name="gender" value="f"/> <result value="HTMLWomensBackground.gif"/>

file: //V:\pat\ScreenRegistry html.xml

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FIG.10e

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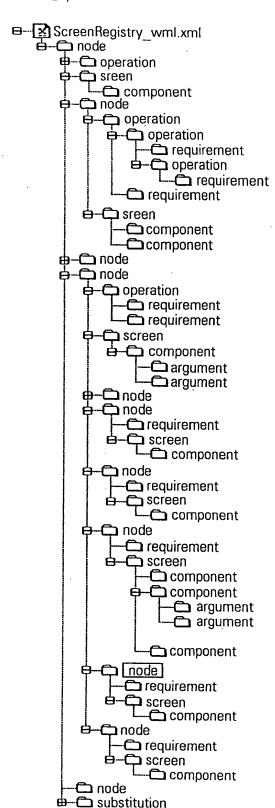
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FIG.10f

WML NODES



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WML

xml FILE OF WML NODES

FIG.10g

```
<?xml version="1.0" encoding= "ISO-8859-1"?>
<!-- Screen definitions for WAP (WML) devices -->
<node>
 < operation type = "or" >
    <operation type = "not" >
      <requirement type="ccpp"
       name = "Browser.CCPPAccept.text/vnd.wap.wml" value = "null" >
    </operation>
    <requirement type = "requestHeaderParameter" name = "user-agent"
value = "Wapalizer*"/>
<requirement type = "requestHeaderParameter" name = "user-agent"</pre>
    value="Nokia*"/>
<requirement type= "requestHeaderParameter" name="user-agent"
      value = "R380*"/>
    <requirement type = "requestHeaderParameter" name = "user-agent"</pre>
      value = "ERKO UP/4.0.10*"/>
    <re>quirement type= "requestHeaderParameter" name= "user-agent" value = "ALAV UP/4.0.10*"/>
     <requirement type= "requestHeaderParameter" name="user-agent"
       value = "SPO1 UP/4.0.10*"/>
    <requirement type= "requestHeaderParameter" name="user-agent" value="T250 UP/4.0.10*"/>
    <requirement type= "requestHeaderParameter" name= "user-agent" value= "IM1K UP/4.0.10*"/>
     <requirement type= "requestHeaderParameter" name="user-agent"</pre>
       value = "MOT-CB/0.0.18 UP/4.0.10*"/>
     <requirement type= "requestHeaderParameter" name="user-agent"</pre>
       value = "SH UP/4.0.10*"/>
   </operation>
   <screen template = "/wml/WMLTemplate.jsp" class = "wml" >
    <component name= "Error"value= "/wmi/WMLError.jsp"/>
   </screen>
   <!-- login page -->
   <node>
      <operation type="or">
        <operation type= "and">
          <requirement type="executionEnvironment" name="loginBean"</pre>
            value = "null"/>
         <operation type="not" >
            <requirement type="requestParameter" name= "cmd"
              value="execute login"/>
           </operation>
         </operation>
         <requirement type="requestParameter" name= "page" value= "login"/>
       </operation>
       </screen>
     </node>
     <!-- welcome page -->
        <requirement type = "executionEnvironment"</pre>
         name = "UniversalContentBrockerContent" value = "null"/>
       <screen class="wml">
         <componente name="Deck 1" value= "wml/WMLWelcome.jsp"/>
```

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WML </screen > </node> <!-- module explorer --> <node> - < operation type = "or" > <requirement type="resourceProperty"name="protocol" value="file:"/ <requirement type= "resourceProperty" name="protocol"</pre> value = "ftp:"/> </operation> <screen class="wml"> - <component name="Deck_1" value="\$WMLEXPLORER" > <argument name = "explorertype" value = "explorer"/>
<argument name = "title" value = "WMLExplorer".documents"/> </component > </screen> <node> <requirement type="requestParameter" name "cmd"</pre> value="viewPage"/> <screen class="wml"> <component name="Action" value="/portal/viewpage"/> - </screen> </node> - <node> <requirement type="requestParameter" name="cmd"</pre> value = "rename"/> <screen class="wml"> <component name = "Deck_1" value = "WMLRename.jsp"/> </screen> </node> - <node> <requirement type="requestParameter" name = "cmd" value = "delete"/> </screen class="wml"> <component name = "Action" value = "/portal/delete"/> </screen> </node> <node> < requirement type= "requestParameter" name= "cmd" </component> <component name="Error" value="/wml/WMLMailSendError.jsp"/> </screen> </node> <node> <requirement type="requestParameter" name="cmd"</pre> value="execute new folder"/> <screen class="wml"> <component name = "Action" value = "/portal/newFolder" /> </screen> </node> <node> file: //V:\pat\ScreenRegistry wml.xml

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FIG.10i

WML

```
<requirement type="requestParameter" name="submodule"/>
        value = "menu"/>
  - <screen template="/wml/WMLTemplate.jsp" class= "contextmenu"> <component name= "Deck_1" value="/wml/WMLCommands.jsp"/>
     </screen>
   </node>
<node>
<node>
    <!-- more WML nodes ... -->
 </node>
<substitution name = "$WMLEXPLORER" >
 - <element>
       <requirement type = "requestParameter" name = "viewTypeExplorer"
  value = "fileview"/>
  <result value = "/wml/WMLFileView.jsp"/>
    </element>
 - <element>
     <result value="/wml/WMLFolderView.jsp" />
    </element>
  </substitution>
</node>
<!-- End WAP (WML) description -->
```

file: //V:\pat\ScreenRegistry wml.xml